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TALENT-KEYHOLE

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CONTROL SYSTEM ONLY

TCS 2408-65
16 March 1965Copy 1Information Processing Division
Report for February 1965General

The KH-4 Data Reduction System was checked out in February and set for validation tests in March. The system will provide for electronic data processing of raw binary times, horizon attitudes, and stellar attitudes. It will eliminate many of the time-consuming manual compilation and correction procedures involved in the old method of producing a final frame ephemeris for each KH-4 mission. Extensive testing on the horizon camera math model to determine the source of discrepancies between horizon attitude data reduced for the forward camera and that from the aft camera was completed during the third week of February.

50X1 Progress was made during the month on a data reduction system for the KH-7 camera system. The General Electric contract programmer, [] has begun flowcharting and coding for the system and five IPD programmers are engaged in various phases of KH-7 programming. In addition, several meetings were held during the month to establish a Data Line Terminal format for KH-7 parameter data. Representatives of (S) NRO, AFSSD and NPIC agreed on a tentative format which the Satellite Tracking Center will use in transmitting data to the intelligence community.

The electrical work was completed in February, allowing the IBM 1401 computer to be moved to the UNIVAC 490 area on the second floor and permitting consolidation of computer operations. The 1401 was down approximately 14 hours during the move and reinstallation. Additional electrical work and modifications to partitions is required before the balance of the EAM and keypunch equipment can be moved to the second floor and the Programming Branch moved to the fourth. DD/S approval for these changes was finally obtained on 17 February 1965. It should be noted that initial discussions and preliminary surveys for this move were begun in April 1964. Pending completion of this work, O/Chief, IPD, and Systems Branch moved into temporary quarters on the fourth floor, making room for Chief, Operations Branch and the newly-formed Production Control Section on the second floor.

50X1 [] LMSC
50X1 consultants, were in for four days. [] was briefed on NPIC operations -- it being his first visit -- and spent one day on the Management Information System. As soon as his personal schedule for completing a Ph.D. thesis permits, he will return to analyze the MIS in detail and make specific recommendations for evolution of the system and the computer processes supporting it. In his short one-day review of the system, [] was

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Excluded from automatic
downgrading and
declassification

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50X1 able to offer some very pertinent and useful suggestions. [] and
50X1 [] discussed extension of the LMSC contract for consulting
and programming services, the problems inherent in selecting third generation
computer equipment, and the factors to be considered in deciding whether or
not IPD should continue to develop the NELIAC compiler.

Systems Branch (SYB)

During February, SYB personnel were engaged in a crash review of the
Management Information System (MIS) to correct some programming errors dis-
covered by production runs and to develop simpler, speedier programs for
many standardized requests.

SYB continued work aimed at full implementation of the IBM 826 Typewriter
Cardpunch machines for the production of immediate reports and participated
in the acceptance test phase of the new All-Source system. Conversion of
the All Source file to the new system is moving very slowly and may necessi-
tate either retention of the old UNIVAC II A magnetic tape drives beyond
the first of April or additional programming effort.

A new study was initiated in February to explore the ramifications of
a requirement levied by CSD for a new target brief header file to be main-
tained separate from the main target brief file. Such a file would be aimed
at allowing changes to the target or installation names (or other information
in the target brief headers) without processing the whole target brief file.

Programming Branch (PRB)

50X1 [] gained much valuable information during his trip to UNIVAC
headquarters in St. Paul. He consulted at length with UNIVAC's REX programmers
concerning difficulties in our system, made UNIVAC personnel more aware of
NPIC and its needs, and in turn learned more about company information and
service available to UNIVAC 490 users. As a result, we have installed a
new updated version of REX (which required relocating the Real Time Program
in core to provide more room for REX) and discovered that difficulties en-
countered with the UNIVAC supplied sort program were caused by faulty tape-
handling subroutines in REX, not the Sort Program. These subroutines have
now been corrected and we are at last able to sort using the new IBM com-
patible III C tape drives.

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50X1

UNIVAC is now training a full-time resident programming representative, [redacted] who will be assigned here as UNIVAC's 1004 expert. [redacted] was previously a maintenance engineer on our 490.

50X1

At the end of February, PRB had one applicant in process against one digital computer programming slot. Twenty-one applicants are in various stages of processing for the ten openings in the mathematical programming area.

Operations Branch

1. Computer use reached an all-time high on both machines.

--- The IBM 1401 computer logged 398 hours of production, test and assembly time in February in answering 239 requests for support, of which 221 were national and 18 departmental. In addition, 8 IPIR's, 4 OAKs and 11 MCIs were processed during February.

--- UNIVAC 490 production, assembly and test time totaled 260 hours in February, processing 258 requests. The work volume required extending the two normal eight-hour shifts to 12 hours each and working seven days a week. By careful scheduling, each operator was allowed a well-earned 24 hours off over Washington's Birthday weekend. Overtime for the Section totaled 1070 hours.

2. MINICARD activity included:

- 316 search requests answered
- 11,848 MINICARD enlargements processed
- 75 published documents MINICARDED
- 115 PID informal reports processed
- 500 documents file-expanded, resulting in 108,404 MINICARDS being added to the files
- 4,700 chips were released to SAC to update their mosaic file
- 6 reels of chips were released to the Navy Tactical Reconnaissance Support Center to update their mosaic file.

3. Equipment

Three more IBM compatible III C tape drives were installed on the UNIVAC 490, giving a total of 8 operational tape drives. It is hoped that the conversion of all programs and tapes to the IBM format can be completed in March permitting release of the tape drives on April 1st.

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Three IBM 826 Typewriter Cardpunch machines were delivered but are still waiting for completion of field engineering modifications to make them operational.

Training

(SYB) completed the second month of the four-month full-time course for systems analysts at the USDA-CEIR.

(SYB) (all of PRB) completed the UNIVAC 490 programming school on 18 February.

(SYB), (OPB) and (PRB) are attending the in-house Rapid Reading Course.

(OPB) completed a course on the UNIVAC 1004 and is now working on a 1004 board to print the target brief file.

completed the Basic Supervision course given by OTR.

Personnel

PRB programmer, accepted an offer from OCS at Headquarters and will transfer there in March.

(EOD 15 February 1965) joined PRB in February in time to attend part of the 490 Programming course.

(OPB) transferred to TID in February.

Chief, Information Processing Division,
NPIC

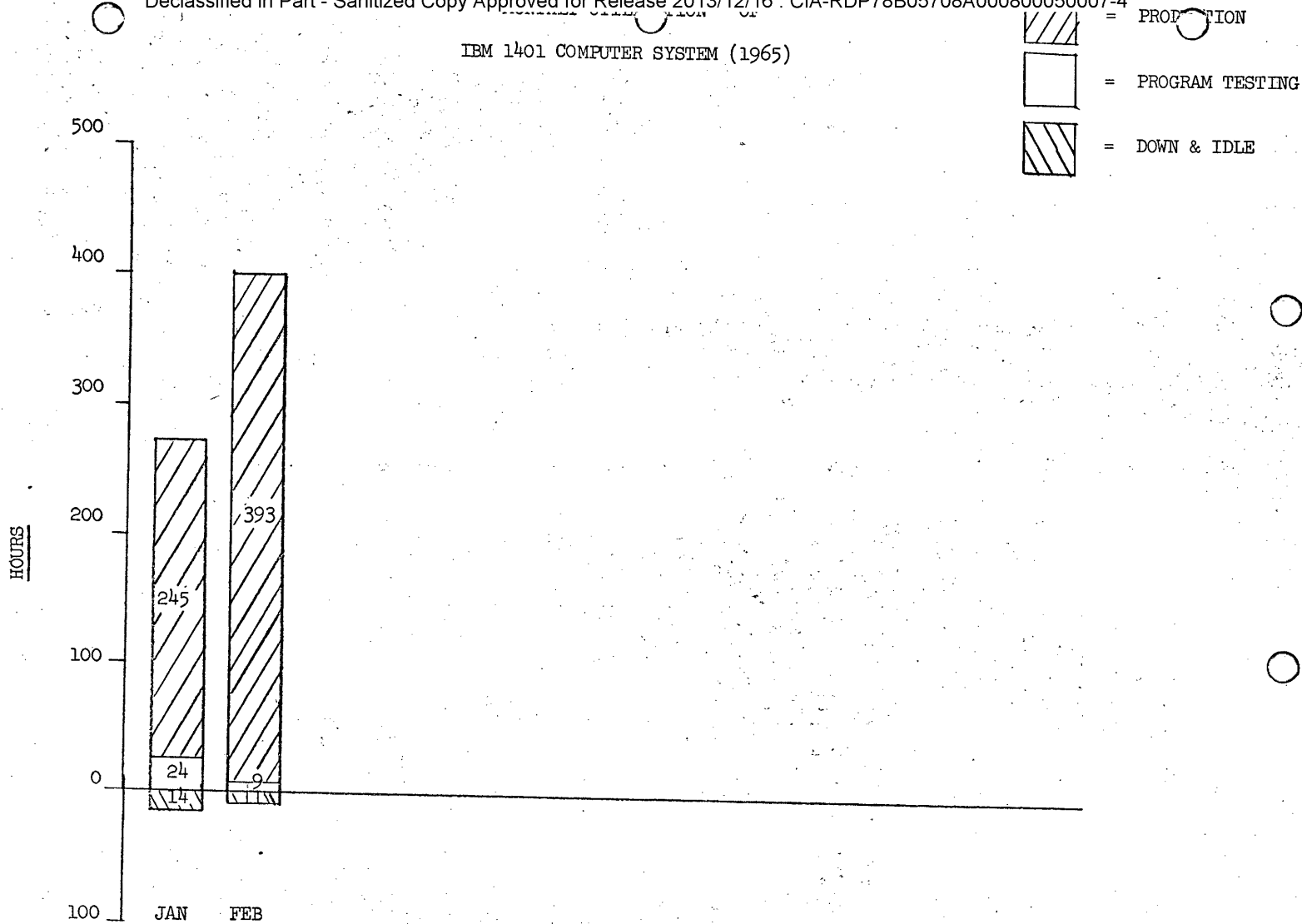
Distribution:

Cy 1 & 2 - Asst. for Admin/NPIC
" 3,4,5 - Chief, IPD

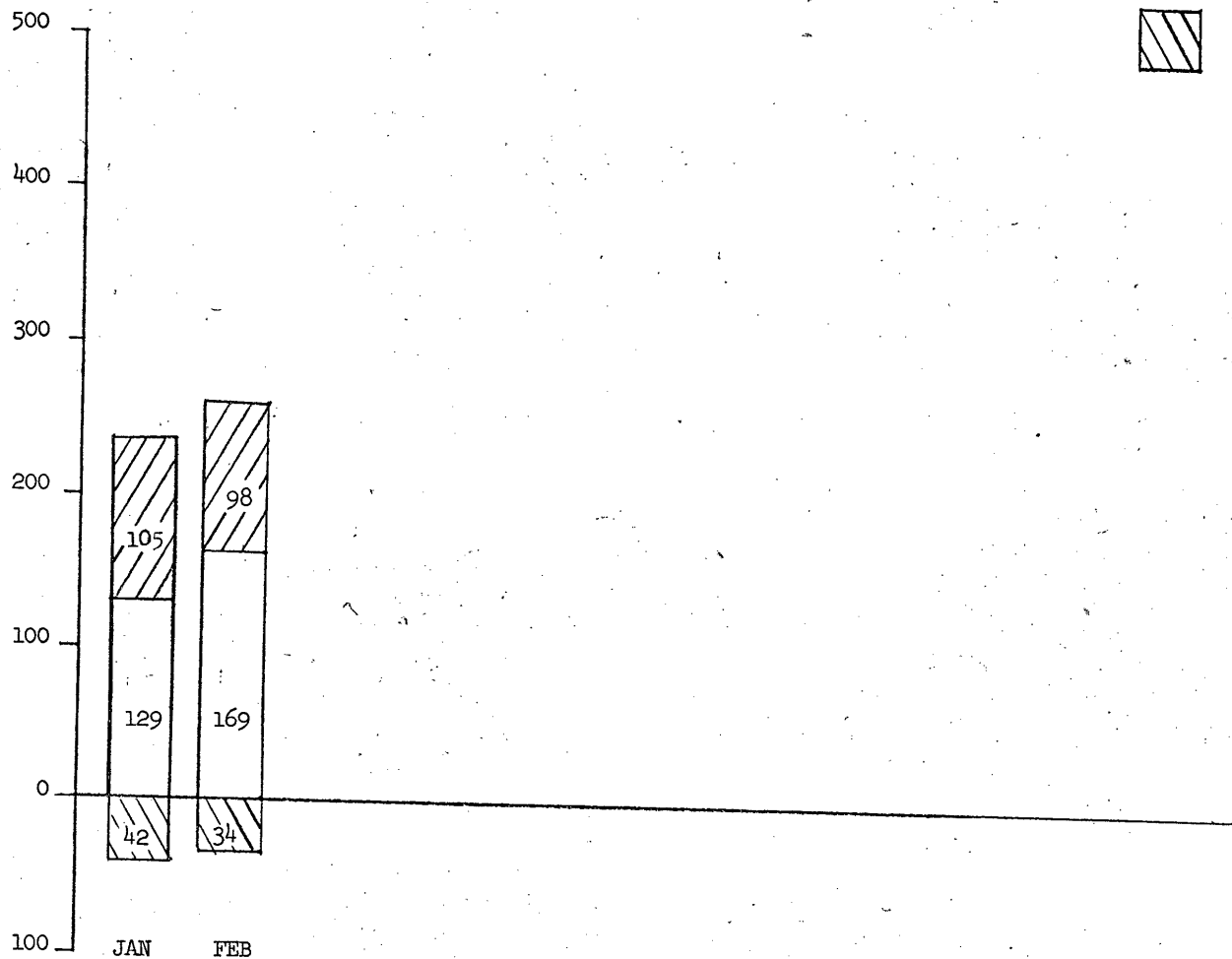
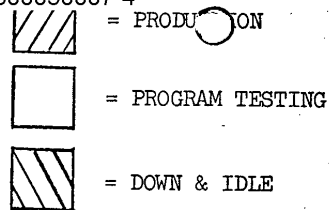
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IBM 1401 COMPUTER SYSTEM (1965)

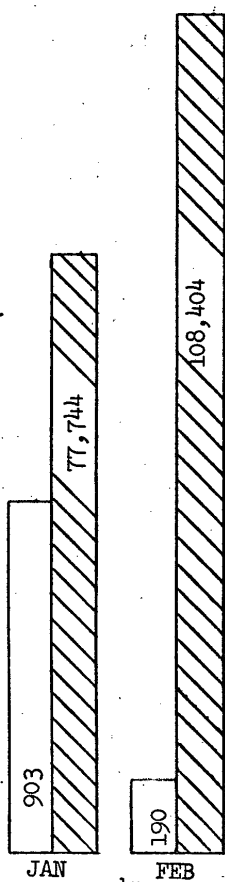


UNIVAC 490 COMPUTER SYSTEM (1965)



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☐ DOCUMENTS MINICARD
☒ FILE EXPANDED CHIPS ADDED TO FILE



JAN
SCALE: 1/2"

FEB

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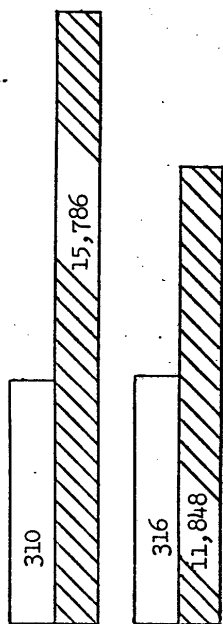
MINICARD OUTPUT FOR 1965



SEARCHES



ENLARGEMENTS



<u>DOCUMENTS</u>	<u>JANUARY</u>	<u>FEBRUARY</u>
MOSAICS	647	--
PID INFRs	53	115
BRIEFING BOARDS	--	--
ALL OTHERS	203	75
	<hr/>	<hr/>
TOTAL DOCUMENTS ADDED	903	190
 TOTAL MINICARDS ADDED (FILE EXPANDED)	 77,744	 108,404
 TOTAL MINICARDS IN COLLECTION 31 DEC 1964:	 <hr/>	 <hr/>
1,806,280	1,884,024	1,992,428